

National Functional Guidelines Report #03

Lab SENTIN(SENTINEL) SDG MF3PK2 Case 40821 Contract EPW09040 Region 6 DDTID 110350 Sow ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF3PQ6, LCS
	Aluminum MF3PQ6 , LCS
Blanks	ICP_MS
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF3PK3, MF3PL8, MF3PM1, MF3PK7, MF3PK8, MF3PK4, MF3PK5, MF3PK2, MF3PK2D, MF3PL7, MF3PK6, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ7, MF3PQ8
	Aluminum MF3PK3 , MF3PL8 , MF3PM1 , MF3PK7 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2 , MF3PK2D , MF3PL7 , MF3PK6 , MF3PN2 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ7 , MF3PQ8
Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF3PK2L, MF3PK2A, MF3PK3, MF3PM1, MF3PN2, MF3PK2, MF3PK8, MF3PK4, MF3PK5, MF3PK2D, MF3PL7, MF3PL8, MF3PK6, MF3PK7, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ6, MF3PQ7, MF3PQ8, PBW
	Cobalt MF3PK2L , MF3PK2A , MF3PK3 , MF3PM1 , MF3PN2 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2D , MF3PL7 , MF3PL8 , MF3PK6 , MF3PK7 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ6 , MF3PQ7 , MF3PQ8
	Beryllium MF3PK8 , PBW
	Aluminum MF3PK2L , MF3PK3 , MF3PM1 , MF3PN2 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2D , MF3PL7 , MF3PL8 , MF3PK6 , MF3PK7 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ7 , MF3PQ8 , PBW
	Antimony MF3PK2A , PBW
	Cadmium MF3PN6
	Thallium MF3PK2A , MF3PK2 , MF3PK2D , PBW
	Magnesium PBW
	Iron MF3PN2 , MF3PL7 , MF3PL8 , MF3PK7 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ6 , MF3PQ8
	Manganese MF3PK2A , MF3PK2D , MF3PK6 , MF3PK7
	Lead MF3PK2A , MF3PK2 , MF3PK4 , PBW
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF3PK2L, MF3PK2A, MF3PK3, MF3PM1, MF3PN2, MF3PK2, MF3PK8, MF3PK4, MF3PK5, MF3PK2D, MF3PL7, MF3PL8, MF3PK6, MF3PK7, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ6, MF3PQ7, MF3PQ8

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Blanks

Blanks	ICP_MS
	Cobalt MF3PK2L , MF3PK2A , MF3PK3 , MF3PM1 , MF3PN2 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2D , MF3PL7 , MF3PL8 , MF3PK6 , MF3PK7 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ6 , MF3PQ7 , MF3PQ8
	Beryllium MF3PK8
	Aluminum MF3PK2L , MF3PK3 , MF3PM1 , MF3PN2 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2D , MF3PL7 , MF3PL8 , MF3PK6 , MF3PK7 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ7 , MF3PQ8
	Antimony MF3PK2A
	Cadmium MF3PN6
	Thallium MF3PK2A , MF3PK2 , MF3PK2D
	Iron MF3PL7 , MF3PL8 , MF3PK7 , MF3PN2 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ6 , MF3PQ8
	Silver MF3PN2 , MF3PK8 , MF3PK4 , MF3PK3 , MF3PK7 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6
	Manganese MF3PK2A , MF3PK7 , MF3PK2D , MF3PK6
	Lead MF3PK2A , MF3PK4 , MF3PK2
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF3PK2S, LCS, MF3PQ6, MF3PK2L, MF3PK2A, MF3PK3, MF3PM1, MF3PK2, MF3PK8, MF3PK4, MF3PK5, MF3PK2D, MF3PL7, MF3PL8, MF3PK6, MF3PK7, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ7, MF3PQ8
	Cobalt MF3PK2S , LCS
	Aluminum MF3PQ6 , LCS
	Beryllium MF3PK2S , LCS
	Antimony MF3PK2S , LCS
	Cadmium MF3PK2S , LCS
	Thallium MF3PK2L , MF3PK2S , LCS
	Magnesium MF3PK2L , MF3PK2A , MF3PK3 , MF3PM1 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2D , MF3PL7 , MF3PL8 , MF3PK6 , MF3PK7 , MF3PN2 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ6 , MF3PQ7 , MF3PQ8 , LCS
	Iron MF3PK8 , LCS
	Manganese MF3PK2L , MF3PK2S , MF3PK3 , MF3PL8 , MF3PM1 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PL7 , MF3PN2 , MF3PN6 , MF3PQ6 , MF3PQ7 , MF3PQ8 , LCS
	Lead MF3PK2S , MF3PL8 , MF3PK7 , MF3PK8 , MF3PK5 , MF3PL7 , MF3PK6 , MF3PN2 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ7 , MF3PQ8 , LCS
Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.

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Blanks

Blanks	ICP_MS
	MF3PK2S, LCS, MF3PQ6, MF3PK2L, MF3PK2A, MF3PK3, MF3PM1, MF3PK2, MF3PK8, MF3PK4, MF3PK5, MF3PK2D, MF3PL7, MF3PL8, MF3PK6, MF3PK7, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ7, MF3PQ8
	Cobalt MF3PK2S , LCS
	Aluminum MF3PQ6 , LCS
	Beryllium MF3PK2S , LCS
	Antimony MF3PK2S , LCS
	Cadmium MF3PK2S , LCS
	Thallium MF3PK2L , MF3PK2S , LCS
	Magnesium MF3PK2L , MF3PK2A , MF3PK3 , MF3PM1 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PK5 , MF3PK2D , MF3PL7 , MF3PL8 , MF3PK6 , MF3PK7 , MF3PN2 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ6 , MF3PQ7 , MF3PQ8 , LCS
	Iron MF3PK8 , LCS
	Silver MF3PK2S , LCS
	Manganese MF3PK2L , MF3PK2S , MF3PK3 , MF3PL8 , MF3PM1 , MF3PK2 , MF3PK8 , MF3PK4 , MF3PL7 , MF3PN2 , MF3PN6 , MF3PQ6 , MF3PQ7 , MF3PQ8 , LCS
	Lead MF3PK2S , MF3PL8 , MF3PK7 , MF3PK8 , MF3PK5 , MF3PL7 , MF3PK6 , MF3PN2 , MF3PN3 , MF3PN4 , MF3PN5 , MF3PN6 , MF3PQ7 , MF3PQ8 , LCS

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Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF3PK8, MF3PL7, MF3PN5, MF3PK2L, MF3PK3, MF3PK4, MF3PL8, MF3PK2A, MF3PK7, MF3PK2, MF3PK2D, MF3PK5, MF3PK6, MF3PN2, MF3PN3, MF3PN4, MF3PN6, MF3PQ6, MF3PQ7, MF3PQ8, MF3PM1, PBW
	Vanadium MF3PK8, MF3PL7, MF3PN5
	Arsenic MF3PK2L, MF3PK3, MF3PK8, MF3PK4
	Chromium MF3PK3, MF3PL8, MF3PK2A, MF3PK7, MF3PK4, MF3PK2, MF3PK2D, MF3PL7, MF3PK5, MF3PK6, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ6, MF3PQ7, MF3PQ8
	Nickel MF3PK2L, MF3PL8, MF3PM1, MF3PK7, MF3PK3, MF3PK4, MF3PL7, MF3PK5, MF3PK6, MF3PQ7, MF3PQ8, PBW
	Potassium MF3PK2L, PBW
	Copper MF3PK2, MF3PK2D
	Lead MF3PL8, MF3PK2A, MF3PK7, MF3PK4, MF3PK2, MF3PK8, MF3PL7, MF3PK6, MF3PQ7, MF3PQ8, PBW
	Sodium PBW
	Selenium MF3PL8, MF3PM1, MF3PK3, MF3PK2, MF3PK2D, MF3PL7, MF3PK5, MF3PK6, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ6, MF3PQ7, MF3PQ8
	Barium MF3PK2L, MF3PK3, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6
	Cobalt MF3PK2L, MF3PK3, MF3PL8, MF3PM1, MF3PK2A, MF3PK7, MF3PK8, MF3PK4, MF3PK2, MF3PK2D, MF3PL7, MF3PK5, MF3PK6, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ6, MF3PQ7, MF3PQ8
	Zinc PBW
	Beryllium MF3PK8, PBW
	Aluminum MF3PK2L, MF3PK3, MF3PL8, MF3PM1, MF3PK7, MF3PK8, MF3PK4, MF3PK2, MF3PK2D, MF3PL7, MF3PK5, MF3PK6, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ7, MF3PQ8, PBW
	Antimony MF3PK2A, PBW
	Cadmium MF3PN6
	Thallium MF3PK2L, MF3PK2A, MF3PK2, MF3PK2D, PBW
	Magnesium PBW
	Manganese MF3PK2L, MF3PL8, MF3PK2A, MF3PK7, MF3PK3, MF3PK4, MF3PK2D, MF3PL7, MF3PK6, MF3PN2, MF3PN6, MF3PQ6, MF3PQ8
	Silver MF3PK3, MF3PK7, MF3PK8, MF3PK4, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6
	Iron MF3PL8, MF3PK7, MF3PK8, MF3PL7, MF3PN2, MF3PN3, MF3PN4, MF3PN5, MF3PN6, MF3PQ6, MF3PQ8

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Duplicates

Duplicates	ICP_MS
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF3PK2
	Zinc MF3PK2
	Manganese MF3PK2

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Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF3PL8, MF3PQ8, MF3PK2D, MF3PN2, MF3PK4, MF3PK2A, MF3PK3, MF3PK7, MF3PK2, MF3PK2S, MF3PN4, MF3PK2L, MF3PL7, MF3PN5, MF3PN3, MF3PK6, MF3PQ7, MF3PN6, MF3PQ6, MF3PM1, MF3PK5, MF3PK8

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Matrix Spikes

Matrix Spikes	ICP_MS
NG054	The following ICP-MS samples are not qualified due to missing the required Post-digestion spike added in the Spike sample analysis.
	MF3PK7, MF3PQ7, MF3PK3, MF3PN3, MF3PL7, MF3PK6, MF3PQ6, MF3PN2, MF3PL8, MF3PN5, MF3PK8, MF3PK5, MF3PM1, MF3PN6, MF3PK4, MF3PQ8, MF3PN4, MF3PK2
	Vanadium MF3PK2A
	Arsenic MF3PK2A
	Chromium MF3PK2A
	Nickel MF3PK2A
	Potassium MF3PK2A
	Copper MF3PK2A
	Lead MF3PK2A
	Selenium MF3PK2A
	Barium MF3PK2A
	Cobalt MF3PK2A
	Zinc MF3PK2A
	Beryllium MF3PK2A
	Antimony MF3PK2A
	Thallium MF3PK2A
	Cadmium MF3PK2A
	Magnesium MF3PK2A
	Silver MF3PK2A
	Iron MF3PK2A
	Manganese MF3PK2A

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Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF3PK7, MF3PN3, MF3PK3, MF3PK5, MF3PN6, MF3PK2, MF3PL7, MF3PM1, MF3PL8, MF3PQ6, MF3PK6, MF3PN2, MF3PK4, MF3PQ8, MF3PN4, MF3PN5, MF3PQ7, MF3PK8
	Zinc MF3PK2L
	Nickel MF3PK2L